Material useful for making bone replacement implants comprises nonmetallic inorganic filler particles embedded in a laser-sinterable biocompatible polymer matrix

Patent number: DE10055465 (A1)
Publication date: 2002-05-23
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Classification:
- international: ***A61F2/28; A61F2/30; A61L27/44; A61L27/46; B29C67/00;*** *A61F2/00;* **A61F2/28; A61F2/30; A61L27/00; B29C67/00;** A61F2/00; (IPC1-7): A61L24/00; A61L27/00; A61L27/14; A61L27/44
- european: A61F2/28; A61F2/30M4; A61L27/44A; A61L27/44R; A61L27/46; B29C67/00L
Application number: DE20001055465 20001109
Priority number(s): DE20001055465 20001109

Also published as:
WO02070031 (A1)

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DE4029714 (A1)

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Abstract of **DE 10055465 (A1)**

Bone replacement material (I) comprises nonmetallic inorganic filler particles (3) embedded in a laser-sinterable biocompatible polymer matrix (2). Independent claims are also included for the following: (1) (1) a process for producing a bone replacement implant, comprising: (a) preparing (I) as a powder mixture; (b) depositing a layer of the powder; (c) laser-sintering the layer according to predetermined implant geometry data; and (d) repeating step (b) and (c); and (2) (2) a bone implant comprising (I) in which the filler particles on the surface are only partially embedded in the matrix.